Interference Search

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("detect$3.clm.andmalware.clm. andmonitoring.clm. and"fileaccess".clm.andscanning. clm.and"writeoperation".clm. and"timeinterval".clm.").PN.	USPAT	OR	OFF	2006/02/15 15:44
L2	0	monitoring.clm. and "file access". clm. and malware.clm. and detect$3.clm. and intercept$3.clm. and scan$4.clm. and write.clm. and application.clm. and "time interval".clm.	USPAT	OR	OFF	2006/02/15 15:46

updated Search

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	("detect$3.clm.andmalware.clm. andmonitoring.clm. and"fileaccess".clm.andscanning. clm.and"writeoperation".clm. and"timeinterval".clm.").PN.	USPAT	OR	OFF	2006/02/15 15:44
L2	0	monitoring.clm. and "file access". clm. and malware.clm. and detect$3.clm. and intercept$3.clm. and scan$4.clm. and write.clm. and application.clm. and "time interval".clm.	USPAT	OR	OFF	2006/02/15 15:46
L3	1	monitor$4 and "file access" and malware and detect$3 and intercept$3 and scan$4 and write and application and "time interval"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:48
L4	11	monitor$4 and "file access" and malware and detect$3 and intercept$3 and scan$4 and write and application	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:48
L5	14	monitor$4 and "file access" and malware and detect$3 and intercept$3 and scan$4 and application	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:48
L6	8	726/22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:48
L7	7260	726/24 or 713/188 or 714/38 or 726/1 or 705/51 or 713/189 or 713/190 or 713/191 or 713/192 or 713/193 or 713/194 or 717/174 or 713/150	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:51
L8	6231	7 and "15"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/15 15:51

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Relevance scale ☐⬒⬓⬛⬛

1   A file system for continuous media   ⬒

◈ David P. Anderson, Yoshitomo Osawa, Ramesh Govindan
November 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 4
Publisher: ACM Press

Full text available: 📄 pdf(1.56 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The Continuous Media File System, CMFS, supports real-time storage and retrieval of continuous media data (digital audio and video) on disk. CMFS clients read or write files in "sessions," each with a guaranteed minimum data rate. Multiple sessions, perhaps with different rates, and non-real-time access can proceed concurrently. CMFS addresses several interrelated design issues; real-time semantics fo sessions, disk layout, an acceptance test for new sessions, and disk schedulin ...

Keywords: disk scheduling, multimedia

2   ENWRICH: a compute-processor write caching scheme for parallel file systems   ☐

◈ Apratim Purakayastha, Carla Schlatter Ellis, David Kotz
May 1996 **Proceedings of the fourth workshop on I/O in parallel and distributed systems: part of the federated computing research conference**
Publisher: ACM Press
Full text available: 📄 pdf(1.38 MB)   Additional Information: full citation, references, citings, index terms

3   Input/output access pattern classification using hidden Markov models   ☐

◈ Tara M. Madhyastha, Daniel A. Reed
November 1997 **Proceedings of the fifth workshop on I/O in parallel and distributed systems**
Publisher: ACM Press
Full text available: 📄 pdf(1.46 MB)   Additional Information: full citation, references, citings, index terms

4   ☐
Application-controlled physical memory using external page-cache management

Kieran Harty, David R. Cheriton
September 1992 **ACM SIGPLAN Notices , Proceedings of the fifth international conference on Architectural support for programming languages and operating systems ASPLOS-V**, Volume 27 Issue 9
Publisher: ACM Press
Full text available: pdf(1.40 MB)   Additional Information: full citation, references, citings, index terms

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5 Analysis of file I/O traces in commercial computing environments

K. K. Ramakrishnan, Prabuddha Biswas, Ramakrishna Karedla
June 1992 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1992 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems SIGMETRICS '92/PERFORMANCE '92**, Volume 20 Issue 1
Publisher: ACM Press

Full text available: pdf(1.44 MB)   Additional Information: full citation, abstract, references, citings, index terms

Improving the performance of the file system is becoming increasingly important to alleviate the effect of I/O bottlenecks in computer systems. To design changes to an existing file system or to architect a new file system it is important to understand current usage patterns. In this paper we analyze file I/O traces of several existing production computer sytems to understand file access behavior. Our analysis suggests that a relatively small percentage of the files are active. T ...

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6 Making operating systems more robust: Backtracking intrusions

Samuel T. King, Peter M. Chen
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Publisher: ACM Press

Full text available: pdf(185.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

Analyzing intrusions today is an arduous, largely manual task because system administrators lack the information and tools needed to understand easily the sequence of steps that occurred in an attack. The goal of BackTracker is to identify automatically potential sequences of steps that occurred in an intrusion. Starting with a single detection point (e.g., a suspicious file), BackTracker identifies files and processes that could have affected that detection point and displays chains of events i ...

Keywords: computer forensics, information flow, intrusion analysis

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7 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(233.31 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

8 File servers for network-based distributed systems

Liba Svobodova

December 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 4

Publisher: ACM Press

Full text available: pdf(4.23 MB)   Additional Information: full citation, references, citings, index terms, review

9 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

10 Backtracking intrusions

Samuel T. King, Peter M. Chen

February 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1

Publisher: ACM Press

Full text available: pdf(647.38 KB)   Additional Information: full citation, abstract, references, index terms

Analyzing intrusions today is an arduous, largely manual task because system administrators lack the information and tools needed to understand easily the sequence of steps that occurred in an attack. The goal of BackTracker is to identify automatically potential sequences of steps that occurred in an intrusion. Starting with a single detection point (e.g., a suspicious file), BackTracker identifies files and processes that could have affected that detection point and displays chains of events i ...

Keywords: Computer forensics, information flow, intrusion analysis

11 The integration of virtual memory management and interprocess communication in Accent

Robert Fitzgerald, Richard F. Rashid

May 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 2

Publisher: ACM Press

Full text available: pdf(2.45 MB)   Additional Information: full citation, abstract, references, citings, index terms

The integration of virtual memory management and interprocess communication in the Accent network operating system kernel is examined. The design and implementation of the Accent memory management system is discussed and its performance, both on a series of message-oriented benchmarks and in normal operation, is analyzed in detail.

12 <u>Performance measurement of a parallel Input/Output system for the Intel iPSC/2</u> ☐
<u>Hypercube</u>
James C. French, Terrence W. Pratt, Mriganka Das
April 1991 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the
1991 ACM SIGMETRICS conference on Measurement and modeling of
computer systems SIGMETRICS '91**, Volume 19 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(940.09 KB)   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

The Intel Concurrent File System (CFS) for the iPSC/2 hypercube is one of the first
production file systems to utilize the declustering of large files across numbers of disks to
improve I/O performance. The CFS also makes use of dedicated I/O nodes, operating
asynchronously, which provide file caching and prefetching. Processing of I/O requests is
distributed between the compute node that initiates the request and the I/O nodes that
service the request. The effects of the various design decision ...

13 <u>A study of integrated prefetching and caching strategies</u> ☐
Pei Cao, Edward W. Felten, Anna R. Karlin, Kai Li
May 1995 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the
1995 ACM SIGMETRICS joint international conference on Measurement
and modeling of computer systems SIGMETRICS '95/PERFORMANCE '95**,
Volume 23 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(1.25 MB)   Additional Information: <u>full citation, abstract, references, citings, index terms</u>

Prefetching and caching are effective techniques for improving the performance of file
systems, but they have not been studied in an integrated fashion. This paper proposes
four properties that optimal integrated strategies for prefetching and caching must satisfy,
and then presents and studies two such integrated strategies, called *aggressive* and
conservative. We prove that the performance of the *conservative* approach is within a
factor of two of optimal and that the perfor ...

14 <u>Computer-aided parallelization of continuous media applications: the 4D beating</u> ☐
<u>heart slice server</u>
J. Tárraga, V. Messerli, O. Figueiredo, B. Gennart, R. D. Hersch
October 1999 **Proceedings of the seventh ACM international conference on Multimedia
(Part 1)**
Publisher: ACM Press
Full text available: 📄 pdf(1.62 MB)   Additional Information: <u>full citation, abstract, references, index terms</u>

Parallel servers for I/O and compute intensive continuous media applications are difficult
to develop. A server application comprises many threads located in different address
spaces as well as files striped over multiple disks located on different computers. The
present contribution describes the construction of a continuous media server, the 4D
beating heart slice server, based on a computer-aided parallelization tool (CAP) and on a
library of parallel file system components enabling the ...

Keywords: 4D tomographic images, computer-aided parallelization, disk scheduling,
parallel I/O streaming, parallel continuous media server, resource reservation

15 <u>Scalability, fidelity, and containment in the potemkin virtual honeyfarm</u> ☐
Michael Vrable, Justin Ma, Jay Chen, David Moore, Erik Vandekieft, Alex C. Snoeren, Geoffrey
M. Voelker, Stefan Savage
October 2005 **ACM SIGOPS Operating Systems Review , Proceedings of the twentieth**

ACM symposium on Operating systems principles SOSP '05, Volume 39 Issue 5

Publisher: ACM Press

Full text available: pdf(506.39 KB)   Additional Information: full citation, abstract, references, index terms

The rapid evolution of large-scale worms, viruses and bot-nets have made Internet malware a pressing concern. Such infections are at the root of modern scourges including DDoS extortion, on-line identity theft, SPAM, phishing, and piracy. However, the most widely used tools for gathering intelligence on new malware -- network honeypots -- have forced investigators to choose between monitoring activity at a large scale or capturing behavior with high fidelity. In this paper, we describe an approa ...

Keywords: copy-on-write, honeyfarm, honeypot, malware, virtual machine monitor

16 A multimedia client to the IBM LAN server

Mark Baugher, Steven French, Alan Stephens, Isabel Van Horn

September 1993 **Proceedings of the first ACM international conference on Multimedia**

Publisher: ACM Press

Full text available: pdf(171.28 KB)
ps(243.48 KB)   Additional Information: full citation, references, index terms

17 Formal Models for Computer Security

Carl E. Landwehr

September 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3

Publisher: ACM Press

Full text available: pdf(2.98 MB)   Additional Information: full citation, references, citings, index terms

18 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

19 Disconnected operation in the Coda File System

James J. Kistler, M. Satyanarayanan

February 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(1.59 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Disconnected operation is a mode of operation that enables a client to continue accessing critical data during temporary failures of a shared data repository. An important, though not exclusive, application of disconnected operation is in supporting portable computers. In this paper, we show that disconnected operation is feasible, efficient and usable by describing its design and implementation in the Coda File System. The central idea behind our work is that cachi ...

Keywords: disconnected operation, hoarding, optimistic replication, reintegration, second-class replication, server emulation

20 Industrial sessions: beyond relational tables: Coordinating backup/recovery and data consistency between database and file systems
Suparna Bhattacharya, C. Mohan, Karen W. Brannon, Inderpal Narang, Hui-I Hsiao, Mahadevan Subramanian
June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**
Publisher: ACM Press
Full text available: pdf(1.44 MB)   Additional Information: full citation, abstract, references, index terms

Managing a combined store consisting of database data and file data in a robust and consistent manner is a challenge for database systems and content management systems. In such a hybrid system, images, videos, engineering drawings, etc. are stored as files on a file server while meta-data referencing/indexing such files is created and stored in a relational database to take advantage of efficient search. In this paper we describe solutions for two potentially problematic aspects of such a data ...

Keywords: DB2, content management, database backup, database recovery, datalinks

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